	Application No.	Applicant(s)
Notice of Allowability	10/757,536	WONGWIRAWAT ET AL.
	Examiner	Art Unit
	Aristocratis Fotakis	2611
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to 07/23/2007.		
2. ☑ The allowed claim(s) is/are <u>1 -14, 18 - 47</u> .		
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	E Malian of Information	totant Annlication
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	 5. ☐ Notice of Informal P 6. ☒ Interview Summary 	• •
	Paper No./Mail Dat 7. ⊠ Examiner's Amendr	
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🔀 Examiner's Amendr	ment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
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DETAILED ACTION

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr Ralph A. Dowell on September 26, 2007.

The application has been amended as followed:

Claim 1, Lines 6 - 7, "a phase error detector for estimating errors in real and imaginary components of said digital signal" has been deleted.

Claim 1, Lines 16 - 17, "said fine carrier recovery circuit comprising a filter for filtering an estimate of a phase error in said carrier to control said phase correction..." has been replaced by "said fine carrier recovery circuit comprising a phase error detector for estimating errors in real and imaginary components of said digital

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signal, a filter for filtering the estimate of phase error in said carrier to control said

phase correction..."

Claim 25, Lines 13 - 16, "wherein said determining an estimate of a phase error

is performed by estimating errors in an imaginary component of said signal uniquely in

each of two modes, and wherein a first of said two modes is for high quality signals",

has been deleted.

Claim 25, Line 6 (determining an estimate of a phase error in said carrier), has

been replaced by "determining an estimate of a phase error in said signal, performed

in two modes by estimating errors in an imaginary component of said signal

uniquely in each of two modes, and wherein a first of said two modes is for high

quality signals",

Allowable Subject Matter

Claims 1 – 14 and 18 - 47 are allowed.

The following is an examiner's statement of reasons for allowance:

Re independent claims 1 and 25, the prior art of record does not disclose of a

digital receiver for demodulating a digital signal having a phase error detector having at

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two modes of operation for uniquely estimating errors in the imaginary component of the

digital signal and wherein a first of said two modes is for high quality signals.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Aristocratis Fotakis whose telephone number is (571)

270-1206. The examiner can normally be reached on Monday - Thursday 7 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chieh M. Fan can be reached on (571) 272-3042. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AF

CHIEH M. FAN SUPERVISORY PATENT EXAMINER